

**Docket No. 217 – Development and Management Plan Inspection**

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

**Date:** March 15, 2005

**Inspector:** Diana Walden

**Location:** 345kV XLPE Component

**Storm/**

**Rain Event:** The only recorded precipitation was 0.30" which fell over 3/12-3/14 as reported by NOAA.

Areas of Inspection	Observation	Recommended Action	Corrective Action
Access Roads and Adjacent Roadways	-The jack and bore of East Swamp Brook is accessed from the roadway. 2/16-3/15/06.	- Equipment is located on both sides of the bore as well as in the adjacent ball park. 3/15/06.	- N/A
	- Tracking on the roadway was not present at the time of the inspection. 3/15/06	-Street sweeping is being performed regularly. Continue to monitor. 3/15/06	-Street continue to be swept regularly. 3/15/06
	- Vaults excavations and trenching are accessed from roadways and parking lots in the Bethel Ed. Park complex. 3/2-3/15/06	- Continue to monitor. 3/2-3/16/06	- N/A
	- A few catch basins along Whittlesey Dr. required controls due to adjacent sediment. 3/15/06	- These areas were shown to the contractor and haybales or silt bags will be placed. 3/15/06	
	-Work within the access drive to Plumtree Substation is largely complete. A few stone piles remain to be removed. 3/15/06	- See erosion control section for recommendations.	- N/A
	-The stone access off Rt. 58 has been extended using portable mats as	-The mats provide a stable working surface and protect the wetlands well.	- Mats were installed to extend access through the

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	trenching from Hoyts Hill transition station has started. 3/15/06	Mats and stone will be removed at the end of work here. 3/15/06	wetlands.
Trench and foundation construction	- Actual excavation for the jack and bore of East Swamp Brook located at the intersection of Plumtrees Rd. Walnut Hill Rd. and Whittlesey Dr. is ongoing. Sheet piling/shoring is in place on both sides of the intersection. 2/2-3/15/06 - Well points are in place to deal with dewatering issues. 3/9-3/15/06	- The area remains well contained at this time. 3/15/06  -Well points are working well. 3/15/06	-N/A  - N/A
	- Trenching and conduit installation has been backfilled along the Plumtree access drive. 3/15/06  - Trenching is occurring between vaults along Whittlesey Dr. Vault 5 at the Rt. 302 intersection is installed and backfilled for now. 3/15/06  - Trenching has begun from the retaining wall at Hoyts Hill transition station. 3/15/06	- The area remains mostly well contained. See erosion control section for recommendations. 3/15/06  - None at this time. There are limited resource areas in the vicinity of these vaults. 3/15/06  -The operation is in good shape at this time. See erosion control and dewatering section for more detail. 3/15/06	- N/A  -N/A
	- Trenching along the access drive to Plumtree Substation is largely complete. 3/15/06  -Several stone piles remain along the drive adjacent to wetland swales. 3/2-3/15/06  - Use of the dewatering box is complete and a good amount of soil was filtered. This will be	- Work was performed very well with minimal encroachment on swales and no sedimentation 3/15/06  - Now that work is complete, remove remaining stone from swales. 3/2-3/15/06  -The small disturbed area within the swale should be regraded and restored. 3/15/06	-N/A
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)			
Plumtree Substation Drive			

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<b>Jack and Bore</b>	disposed of properly. Removal of the box caused some minor disturbance to the wetland swale. 3/15/06		
	- Silt fence at vault 2A&B was well in place but several piles of stone had been placed over it as a result of plowing. 3/2-3/16/06	- Stone piles should be placed back on the work side of the fence as soon as feasible. One of the piles can remain as work is coming through that area. 3/15/06	
	-Silt fence was placed at the stockpile along the perimeter fence at the J&B pad as recommended. 3/16/06	-Good controls are in place. 3/15/06	-Silt fence was installed as recommended. 3/15/06
<b>Whittlesey Drive</b>	-A plastic liner remains installed in the stream bed and up the banks. Stone was installed over it within the stream and soil was placed to secure it on the banks. 2/16-3/15/06	-Silt fence was still in place above the liner but continue to monitor the disturbed area below for sedimentation. The stream was running clear at the time. 3/15/06	- N/A at this time
	- A catch basin near active trenching was noted without controls. 3/15/06	-Contractors will be installing either haybales or a silt bag ASAP. 3/15/06	
	- A topsoil stockpile is in place at an office/storage area for the contractor. The stockpile is covered in plastic and silt fence is installed at the base. 3/15/06	- Controls are well in place at this time. 3/15/06	- N/A
<b>Hoyts Hill</b>	-Mats are well in place and trenching was occurring near the retaining wall. Dewatering was necessary but good controls, including a filter bag, were being used. 3/15/06	- Water from the bag was clear at the time of inspection, but some adjacent areas had turbid water. This may have been from transition station dewatering. The contractor agreed to fix a hole in the adjacent silt fence even though their	-N/A

Areas of Inspection	Observation	Recommended Action	Corrective Action
		controls are good. 3/15/06	
Inland Wetland and Watercourse encroachment and mitigation  Inland Wetland and Watercourse continued	-East Swamp Brook crosses under Plumtrees Rd. A large plastic liner is in place across the bed and up along the banks to keep water out of the bore trench. Stone was installed over the liner to create a temporary natural bed. 2/16-3/15/06  -Flow has already shaped the pattern of stone within the stream. 3/2-3/15/06  - A minor area of wet swale was disturbed removing the dewatering box. 3/15/06	- The stream continues to run clear. Be sure to remove the liner and restore the natural bed when work is complete. Watch the banks where soil was disturbed for any erosion. 2/16-3/15/06  - None at this time. 3/15/06  - Contractors will be providing some minor restoration here. 3/15/06	-N/A at this time       - N/A
State species of concern, threatened and endangered species	-The D&M plan and clearance letter states that state-listed species are not located in this work area.	- N/A	-N/A
Vegetative clearing limits (including trees to save or danger trees noted)	-Most work on this project remains in the roadway, access drives or maintained lawn areas. 3/15/06	-Restore lawn and vegetation as necessary when work is complete during the growing season. This is needed especially where vaults were installed. 3/2-3/15/06	-N/A until work is complete.
Dewatering	-Increased dewatering continues to the lined box at the jack and bore. The box is receiving clear water from the well points and turbid water from a single pump in the trench. Water leaves the box clear. 3/15/06  - Since work here is	-Contractors requested that well point water be allowed to discharge to controls on the ground while pump water continues to be sent to the box since it is reaching capacity more quickly. In our opinion, this is appropriate due to the clarity of the well point water. 3/15/06.	-N/A

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	complete, the box at Plumtree is being removed after filtering a significant amount of silt out of the trench. 3/15/06	-None at this time. 3/15/06	-N/A
Blasting	- No blasting is occurring at this work area.	- None at this time.	
Soils	- Operations at Plumtree are largely complete and soil was handled well. 3/15/06	- None at this time. 3/15/06	-N/A
	- Some soil is stockpiled along the active roadway shoulder trenching but will be returned as backfill. 3/15/06	- None at this time. 3/15/06	- N/A
	- Topsoil was stripped and stockpiled at the contractor yard. 3/15/06	- None at this time. 3/15/06	-N/A
Spills and Material Storage Areas	<p>- Equipment should be stored overnight up to 100ft or as far from resource areas where practicable. 1/19-3/15/06</p> <p>- Some ruts from vehicle traffic were noted along the access into the ball park. The contractor's inspector asked that vehicles remain on the hard pack drive. 3/15/06</p>	<p>- Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site.</p> <p>- The contractors should remain vigilant about securing and handling fuel and all other material containers due to the sensitivity of the area.</p> <p>- Report spills immediately, even if they are being controlled.</p> <p>- Any fuels and agents not in use should be covered and stored before leaving for the day.</p>	- N/A

**Next likely scheduled inspection:**

Thursday, March 23, 2006

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

**Inspector's Signature:** Diana Walden



**345kV XLPE (Plumtree Substation):** Photo on the left shows the largest stone piles left behind along the Plumtree access drive. This should be removed as it encroaches on the swale. Photo on the right shows the completed trench work in the drive near Walnut Hill Rd. 3/15/06



Photo on the left shows the dewatering box which is being removed from site due to completed work here. A significant amount of sediment was filtered from the trench. Photo on the right shows where the box had been within the wet swale. The area could use a little restoration. 3/15/06





(Vault 2A&B): Photo shows some stone piles beyond the silt fence as a result of snow plowing. Stone should be carefully removed from the wetland side of the fence. 3/15/06



(Jack and Bore): Photo on the left shows a view of the bore pad. Additional erosion controls were installed to encompass the new sediment pile. Photo on the right shows the dewatering box working at this location. 3/16/06





(Whittlesey Drive): Both photos show views of the active trenching in various stages of construction along Whittlesey Drive. 3/15/06



Photo on the left shows a catch basin along Whittlesey Drive which will be placed with controls. Photo on the right shows completed trenching within the student parking lot off Whittlesey Dr. 3/15/06





Photo on the left shows the storage and office area for the contractor while working on site. A topsoil stockpile is covered in plastic with silt fence at the base. Photo on the right shows the access installed off Rt. 58 at Hoyts Hill. Portable mats were also installed for stabilization. 3/15/06



Photo on the left shows the initial trenching out of Hoyts Hill. Photo on the right shows active dewatering from the trench to a filter bag and erosion controls. The water filtering from the bag was clear at the time of inspection. 3/15/06